



FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
MM ↓	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	1	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," Proc. Natl. Acad. Sci. USA 82:5724-5727, National Academy Press (1985)
	AS	1	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," J. Bacteriol. 174:5145-5148, American Society for Microbiology (1992)
	AT	1	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," Virology 170:238-242, Academic Press, Inc. (1989)

EXAMINER <i>modu</i>	DATE CONSIDERED <i>2-19-04</i>
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MM	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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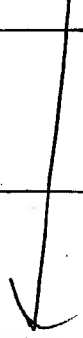

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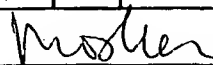
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	AR	3	Antonyssamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," J. Immunol. 162:577-584, The American Association of Immunologists (1999)
	AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," Cancer Immunol. Immunother. 49:587-592, Springer-Verlag (January 2001)
	AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against Schistosoma mansoni: synthesis and characterization," Immunology 101:555-562, Blackwell Science, Ltd. (December 2000)

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MM	AR	4	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	4	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	4	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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MM ↓	AR	5	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
	AS	5	Bard, F. et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
	AT	5	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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	AR	6	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
	AS	6	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
	AT	6	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

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MM	AR	2	Blomfield, I.C., et al., "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
	AS	2	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
✓	AT	2	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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MM	AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," J. Mol. Evol. 44:299-309, Springer-Verlag (1997)
	AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," Transfus. Clin. Biol. 6:17-23, Elsevier, Paris (1999)
E	AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," Trans. N.Y. Acad. Sci. 27:1003-1054, New York Academy of Sciences (1965)

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	AR	9	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J. Immunol.</i> 142:679-687, The American Association of Immunologists (1989)
	AS	2	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," <i>Protein Expr. Purif.</i> 6:63-71, Academic Press, Inc. (1995)
	AT	2	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," <i>Nat. Med.</i> 11:1308-1312, Nature Publishing Company (1999)

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MM	AR	10	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," <i>Proc. Natl. Acad. Sci. USA</i> 93:12890-12895, National Academy Press (1996)
	AS	10	Bullitt, E., and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," <i>Biophys. J.</i> 74:623-632, Biophysical Society (1998)
	AT	10	Burger, J.A., et al., "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," <i>Blood</i> 96:2655-2663, The American Society of Hematology (October 2000)

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	AR	11	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an Escherichia coli F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
	AS	11	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-O Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
	AT	11	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synoviocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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	AR	12	Chabaud, M., et al., "Human Interleukin-17. A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium," Arthritis Rheum. 42:963-970, Wiley-Liss, Inc. (1999)
	AS	12	Chabaud, M., et al., "Contribution of Interleukin 17 to synovium matrix destruction in rheumatoid arthritis," Cytokine 12:1092-1099, Cell Press (July 2000)
	AT	12	Clark, H.F., et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSW) and a Virus-Free Cell Line (VH2) From Vipera russelli," J. Natl. Cancer Inst. 51:645-657, Oxford University Press (1973)

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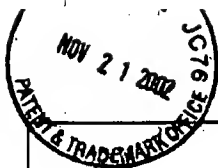
	AR	13	Clark-Lewis, I., et al., "Chemical Synthesis, Purification, and Characterization of Two Inflammatory Proteins, Neutrophil Activating Peptide 1 (Interleukin-8) and Neutrophil Activating Peptide 2," Biochemistry 30:3128-3135, American Chemical Society (1991)
	AS	13	Coffman, R.L., et al., "Antibody to Interleukin-5 Inhibits Helminth-Induced Eosinophilia in Mice," Science 245:308-310, American Association for the Advancement of Science (1989)
	AT	13	Cohen, C., and Parry D.A.D., "α-Helical coiled coils-a widespread motif in proteins," Trends Biochem. Sci. 11:245-248, Elsevier Science Publishers B.V. (1986)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	14	Corti, M., et al., "GM1-ganglioside-Triton X-100 mixed micelles: changes of micellar properties studied by laser-light scattering and enzymatic methods," Chem. Phys. Lipids 28:197-214, Elsevier/North-Holland Scientific Publishers, Ltd. (1981)
	AS	14	Coutelier, J.-P., et al., "IgG2a Restriction of murine antibodies elicited by viral infections," J. Exp. Med. 165:64-69, The Rockefeller University Press (1987)
	AT	14	Crump, M.P., et al., "Solution Structure of Eotaxin, a Chemokine That Selectively Recruits Eosinophils in Allergic Inflammation," J. Biol. Chem. 273:22471-22479, The American Society for Biochemistry and Molecular Biology, Inc. (1998)

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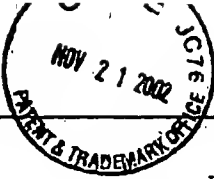
MM	AR	15	Davis, N.L., et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," Virology 171:189-204, Academic Press (1989)
	AS	15	Daugherty, P.S., et al., "Development of an optimized expression system for the screening of antibody libraries displayed on the Escherichia coli surface," Protein Eng. 12:613-621, Oxford University Press (1999)
	AT	15	Dealwis, C., et al., "Crystal structure of chemically synthesized [N13A] stromal cell-derived factor 1 α , a potent ligand for the HIV-1 "fusin" coreceptor," Proc. Natl. Acad. Sci. USA 95:6941-6946, National Academy Science (June 2001)

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MM	AR	16	Dodson, K.W., et al., "Outer-membrane PapC molecular usher discriminately recognizes periplasmic chaperone-pilus subunit complexes," <i>Proc. Natl. Acad. Sci. USA</i> 90:3670-3674, National Academy Press (1993)
I	AS	16	Dudler, J., et al., "Effect of interleukin 17 on proteoglycan degradation in murine knee joints," <i>Ann. Rheum. Dis.</i> 59:529-532, Bmj Publishing Group (July 2000)
↓	AT	16	Eckhardt, S.G., et al., "Hepatitis B Virus Core Antigen Has Two Nuclear Localization Sequences in the Arginine-Rich Carboxyl Terminus," <i>J. Virol.</i> 65:575-582, American Society for Microbiology (1991)

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MM	AR	17	Eisenmesser, E.Z., et al., "Expression, Purification, Refolding, and Characterization of Recombinant Human Interleukin-13: Utilization of Intracellular Processing," <i>Protein Expr. Purif.</i> 20:186-195, Academic Press (November 2000)
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MM	AR	18	Elisseeva, E.L., et al., "NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1," <i>J. Biol. Chem.</i> 275:26799-26805, The American Society for Biochemistry and Molecular Biology, Inc. (September 2000)
	AS	18	Eshdat, Y., et al., "Dissociation and Reassembly of <i>Escherichia coli</i> Type 1 Pili," <i>J. Bacteriol.</i> 148:308-314, American Society for Microbiology (1981)
V	AT	18	Ettinger, R., et al., "A Critical Role for Lymphotoxin- β Receptor in the Development of Diabetes in Nonobese Diabetic Mice," <i>J. Exp. Med.</i> 193:1333-1339, The Rockefeller University Press (June 2001)

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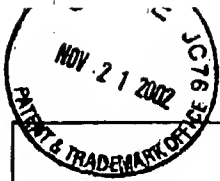
	AR	<u>19</u>	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J Exp. Med.</i> 185:1785-1792, The Rockefeller University Press (1997)
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	AT	<u>19</u>	Folkman, J., "Angiogenesis in cancer, vascular, rheumatoid and other disease," <i>Nat. Med.</i> 1:27-31, Nature Publishing Company (1995)

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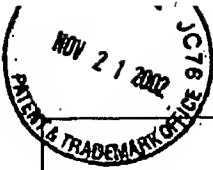
MM	AR	20	Forssmann, U., et al., "Eotaxin-2, a Novel CC Chemokine that Is Selective for the Chemokine Receptor CCR3, and Acts Like Eotaxin on Human Eosinophil and Basophil Leukocytes," J. Exp. Med. 185:2171-2176; The Rockefeller University Press (1997)
	AS	20	Fossiez, F., et al., "T Cell Interleukin-17 Induces Stromal Cells to Produce Proinflammatory and Hematopoietic Cytokines," J. Exp. Med. 183:2593-2603, The Rockefeller University Press (1996)
	AT	20	Fossiez F., et al., "Interleukin-17," Intern. Rev. Immunol. 16:541-551, Harwood Academic Publishers (1998)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	21	Fujiwara, K., et al., "Novel preparation method of immunogen for hydrophobic hapten, enzyme immunoassay for daunomycin and adriamycin," <i>J. Immunol. Methods</i> 45:195-203, Elsevier/North-Holland Biomedical Press (1981)
↓	AS	21	Gally, D.L., et al., "Environmental Regulation of the fim Switch Controlling Type 1 Fimbrial Phase Variation in <i>Escherichia coli</i> K-12: Effects of Temperature and Media," <i>J. Bacteriol.</i> 175:6186-6193, American Society for Microbiology (1993)
↓	AT	21	Gally, D. L., et al., "Interaction of FimB and FimE with the fim switch that controls the phase variation of type 1 fimbriae in <i>Escherichia coli</i> K-12," <i>Mol. Microbiol.</i> 21:725-738, Blackwell Science, Ltd. (1996)

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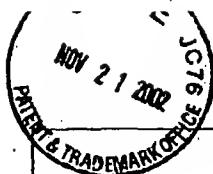
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	22	Gherardi, E. et al., "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J. Immunol. Methods</i> 126: 61-68, Elsevier (1990)
	AS	22	Golmohammadi, R., et al., "The crystal structure of bacteriophage Q β at 3.5Å resolution," <i>Structure</i> 4:543-554, Current Biology, Ltd. (1996)
	AT	22	Gunn, M.D., et al., "A B-cell-homing chemokine made in lymphoid follicles activates Burkitt's lymphoma receptor-1," <i>Nature</i> 391:799-803, Nature Publishing Group (1998)

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	AR	23	Hanes, J., et al., "Picomolar affinity antibodies from a fully synthetic naive library selected and evolved by ribosome display," Nat. Biotechnol. 18:1287-1292, Nature Publishing Company (December 2000)
	AS	23	Hanson, M.S., et al., "Purification of the Escherichia coli Type 1 Pilin and Minor Pilus Proteins and Partial Characterization of the Adhesin Protein," J. Bacteriol. 170:3350-3358, American Society for Microbiology (1988)
	AT	23	Hanson, M.S., and Brinton, Jr., C.C., "Identification and characterization of E. coli type-1 pilus tip adhesion protein," Nature 332:265-268, Nature Publishing Group (1988)

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MM	AR	24	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
J	AS	24	Haslam, D.B., et al., "The amino-terminal domain of the P-pilus adhesin determines receptor specificity," <i>Mol. Microbiol.</i> 14:399-409, Blackwell Scientific Publications (1994)
✓	AT	24	Hedrick, J.A., and Zlotnik, A., "Identification and Characterization of a Novel β Chemokine Containing Six Conserved Cysteines," <i>J. Immunol.</i> 159: 1589-1593, The American Association of Immunologists (1997)

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MM	AR	25	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," Curr. Biol. 8:369-376, Current Biology, Ltd. (1998)
I	AS	25	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," Proc. Natl. Acad. Sci. USA 86:8247-8251, National Academy Press (1989)
✓	AT	25	Holmes, W.D., et al., "Solution Studies of Recombinant Human Stromal-Cell-Derived Factor-1," Prot. Expr. Purif. 21:367-377, Academic Press (April 2001)

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	AS	26	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," Nature 342:248-251, Nature Publishing Group (1989)
	AT	26	Hultgren, S.J., et al., "The PapG adhesin of uropathogenic Escherichia coli contains separate regions for receptor binding and for the incorporation into the pilus," Proc. Nat. Acad. Sci. USA 86:4357-4361, National Academy Press (1989)

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MM	AR	27	Hultgren, S.J., et al., "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," Adv. Prot. Chem. 44:99-123, Academic Press, Inc. (1993)
	AS	27	Hultgren, S.J., et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition," Cell 73:887-901, Cell Press (1993)
✓	AT	27	Hultgren, S.J., et al., "Bacterial Adhesins and Their Assembly," in <i>Escherichia coli and Salmonella</i> , Neidhardt, F.C., et al., eds., ASM Press, Washington, D.C. pp. 2730-2756 (1996)

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ATTY. DOCKET NO.
1700.0190004/JAG/BJD/SJE

APPLICATION NO.
10/050,902

APPLICANT
RENNER et al.

FILING DATE
January 18, 2002

GROUP
To be assigned

U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	28	Humbles, A.A., et al., "Kinetics of Eotaxin Generation and Its Relationship to Eosinophil Accumulation in Allergic Airways Disease: Analysis in a Guinea Pig Model In Vivo," <i>J. Exp. Med.</i> 186:601-612, The Rockefeller University Press (1997)
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	AS	33	Kim, K.-H., et al., "A Cysteine-rich Adipose Tissue-specific Secretory Factor. Inhibits Adipocyte Differentiation," J. Biol. Chem. 276:11252-11256, The American Society for Biochemistry and Molecular Biology, Inc. (April 2001)
	AT	33	Klemm, P., "The fimA gene encoding the type-1 fimbrial subunit of Escherichia coli. Nucleotide sequence and primary structure of the protein," Euro. J. Biochem. 143:395-399, Blackwell Science, Ltd. (1984)

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mm	AR	34	Klemm, P., and Christiansen, G., "Three fim genes required for the regulation of length and mediation of adhesion of <i>Escherichia coli</i> type 1 fimbriae," Mol. Gen. Genet. 208:439-445, Springer-Verlag (1987)
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	35	Klemm, P., "FimC, a chaperone-like periplasmic protein of <i>Escherichia coli</i> involved in biogenesis of type 1 fimbriae," <i>Res. Microbiol.</i> 143:831-838, Institut Pasteur/Elsevier (1992)
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L	AT	35	Kodama, S., et al., "Characterization of recombinant murine interleukin 5 expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 2:419-427, Oxford University Press (1992)

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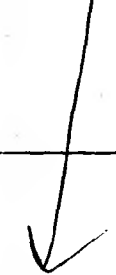

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	AP						Yes No

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	AR	36	Kodama, S., et al., "Carbohydrate Structures of Human Interleukin 5 Expressed in Chinese Hamster Ovary Cells," J. Biochem. (Tokyo) 110:693-701, Japanese Biochemical Society (1991)
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	AT	36	Koschel, M., et al., "Extensive Mutagenesis of the Hepatitis B Virus Core Gene and Mapping of Mutations That Allow Capsid Formation," J. Virol 73:2153-2160, American Society for Microbiology (1999)

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	AS	37	Kozlovskaya, T.M., et al., "Recombinant RNA phage Q β capsid particles synthesized and self-assembled in <i>Escherichia coli</i> ," Gene 137:133-137, Elsevier Science Publishers B.V. (1993)				
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	AS	38	Krogfelt, K.A., et al., "Direct Evidence that the FimH Protein Is the Mannose-Specific Adhesin of Escherichia coli Type 1 Fimbriae," Infect. Immun. 58:1995-1998, American Society for Microbiology (1990)
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	AS	40	Leech, M., et al., "Involvement of macrophage migration inhibitory factor in the evolution of rat adjuvant arthritis," Arthritis Rheum. 41:910-917, Arthritis Foundation (1998)
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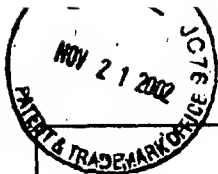
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2-19-04

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	AL						Yes No
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	AN						Yes No
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MM	AR	43	López, O., et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318, Elsevier (1998)
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MM	AR	44	Lum, L., et al., "Evidence for a Role of a Tumor Necrosis Factor- α (TNF- α)-converting Enzyme-like Protease in Shedding of TRANCE, a TNF Family Member Involved in Osteoclastogenesis and Dendritic Cell Survival," J. Biol. Chem. 274:13613-13618, The American Society for Biochemistry and Molecular Biology, Inc. (1999)
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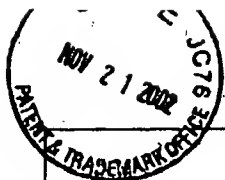
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MM	AR	49	Mitchell, D.L., et al., "Purification and characterization of recombinant murine interleukin-5 glycoprotein, from a Baculovirus expression system," Biochem. Soc. Trans. 21:332S, Portland Press (1993)
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	AM						Yes No
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MM	AR	50	Moriya, C., et al., "Large quantity production with extreme convenience of human SDF-1 α and SDF-1 β by a Sendai virus vector," <i>FEBS Lett.</i> 425:105-111, Amsterdam Elsevier Science B.V. (1998)
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M. Miller

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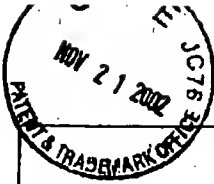
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	AS	52	Newman, J.V., et al., "Stimulation of Escherichia coli F-18Col Type-1 fimbriae synthesis by leuX," FEMS Microbiol. Lett. 122:281-287, Elsevier (1994)
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MM	AR	53	Nilsson, P., et al., "Mutations Affecting mRNA Processing and Fimbrial Biogenesis in the <i>Escherichia coli</i> pap Operon," <i>J. Bacteriol.</i> 178:683-690, American Society for Microbiology (1996)
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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MM	AR	55	O'Shea, E.K., et al., "Evidence That the Leucine Zipper Is a Coiled Coil," <i>Science</i> 243:538-542, American Association for the Advancement of Science (1989)
↓	AS	55	O'Shea, E.K., et al., "Mechanism of Specificity in the Fos-Jun Oncoprotein Heterodimer," <i>Cell</i> 68:699-708, Cell Press (1992)
↓	AT	55	Pandit, J., et al., "Three-dimensional Structure of Dimeric Human Recombinant Macrophage Colony-Stimulating Factor," <i>Science</i> 258:1358-1362, American Association for the Advancement of Science (1992)

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MM ↓	AR	56	Pierrot, C., et al., "Expression of Rat Interleukin-5 and Generation of Neutralizing Antiserum: a Comparative Study of Rat IL-5 Produced in <i>Escherichia coli</i> and Insect Cells," <i>Biochem. Biophys. Res. Commun.</i> 253:756-760, Academic Press (1998)
	AS	56	Pierson-Mullany, L.K., et al. "Characterization of polyclonal allergen-specific IgE responses by affinity distributions," <i>Mol. Immunol.</i> 37:613-620, Elsevier Science, Ltd. (August 2000)
	AT	56	Piossek, C., et al., "Vascular Endothelial Growth Factor (VEGF) Receptor II-derived Peptides Inhibit VEGF," <i>J. Biol. Chem.</i> 274:5612-5619, The American Society for Biochemistry and Molecular Biology, Inc. (1999)

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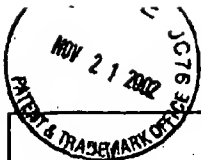
	AR	58	Renner, W.A., et al., "Recombinant Cyclin E Expression Activates Proliferation and Obviates Surface Attachment of Chinese Hamster Ovary (CHO) Cells in Protein-Free Medium," Biotech. Bioeng. 47:476-482, John Wiley & Sons, Inc. (1995)
	AS	58	Risau, W., "Mechanisms of angiogenesis," Nature 386:671-674, Nature Publishing Group (1997)
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MM	AR	60	Romagnani, S., "The Th1/Th2 paradigm," Immunol. Today 18:263-266, Elsevier Science, Ltd. (1997)
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	AR	61	Russell, P.W., and Orndorff, P.E., "Lesions in Two <i>Escherichia coli</i> Type 1 Pilus Genes Alter Pilus Number and Length without Affecting Receptor Binding," <i>J. Bacteriol.</i> 174:5923-5935, American Society for Microbiology (1992)
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓ ✓	AR	62	Schenk, D., et al., "Immunization with amyloid- β attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <i>Nature</i> 400:173-177, Nature Publishing Group (1999)
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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MM	AR	63	Slonim, L.N., et al., "Interactive surface in the PapD chaperone cleft is conserved in pilus chaperone superfamily and essential in subunit recognition and assembly," <i>EMBO J.</i> 11:4747-4756, Oxford University Press (1992)
J	AS	63	Smyth, C.J., et al., "Fimbrial adhesins: similarities and variations in structure and biogenesis," <i>FEMS Immun. Med. Microbiol.</i> 16:127-139, Elsevier (1996)
↓	AT	63	Soto, H., et al., "The CC chemokine 6Ckine binds the CXCR3 chemokine receptor CXCR3," <i>Proc. Natl. Acad. Sci. USA</i> 95:8205-8210, National Academy Press (1998)

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2-19-09

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MM	AR	64	Soto, G.E., et al., "Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus," <i>EMBO J.</i> 17:6155-6167, Oxford University Press (1998)
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✓	AT	64	Steppan, C.M., et al., "The hormone resistin links obesity to diabetes," <i>Nature</i> 409:307-312, Nature Publishing Group (January 2001)

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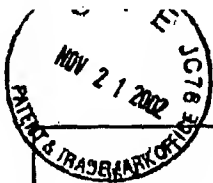
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MY	AR	67	Tanimori, H., et al., "Enzyme immunoassay of neocarzinostatin using β -galactosidase as label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
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	AT	67	Tewari, R., et al., "Neutrophil Activation by Nascent FimH Subunits of Type I Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 268:3009-3015, The American Society for Biochemistry and Molecular Biology, Inc. (1993)

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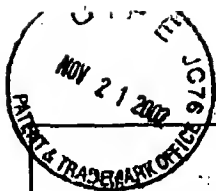
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	AT	68	De Togni, P., et al., "Abnormal Development of Peripheral Lymphoid Organs in Mice Deficient in Lymphotoxin," Science 264:703-707, American Association for the Advancement of Science (1994)				

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10/050,902APPLICANT
RENNER et al.FILING DATE
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To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

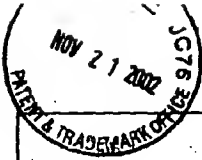
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	69	Topchieva, I., and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-ionic Surfactants and Cyclodextrins," J. Colloid Interface Sci. 213:29-35, Academic Press (1999)
	AS	69	Twomey, T., et al., "Structure and immunogenicity of experimental foot-and-mouth disease and poliomyelitis vaccines," Vaccine 13:1603-1610, Elsevier Science, Ltd. (1995)
✓	AT	69	Ulrich, R., et al., "Core particles of hepatitis B virus as carrier for foreign epitopes," Adv. Virus Res. 50:141-182, Academic Press (1998)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓ ✓	AR	70	Vicari, A.P., et al., "Antitumor Effects of the Mouse Chemokine 6Ckine/SLC Through Angiostatic and Immunological Mechanisms," J. Immunol. 165:1992-2000, The American Association of Immunologists (August 2000)
	AS	70	Visintin, M. et al., "Selection of antibodies for intracellular function using a two-hybrid in vivo system," Proc. Natl. Acad. Sci. USA 96:11723-11728, National Academy Press (1999)
	AT	70	Walse, B., et al., "Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the Escherichia coli PapD chaperone," FEBS Lett. 412:115-120, Elsevier Science B.V. (1997)

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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	71	Warnes, A., et al., "Expression of the measles virus nucleoprotein gene in <i>Escherichia coli</i> and assembly of nucleocapsid-like structures," <i>Gene</i> 160:173-178, Elsevier Science B.V. (1995)
J	AS	71	Watson, E., et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 4:227-237, Oxford University Press (1994)
✓	AT	71	Wei, Y.Q., et al., "Immunotherapy of tumors with xenogeneic endothelial cells as a vaccine," <i>Nat. Med.</i> 6:1160-1166, Nature Publishing Company (October 2000)

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M. J. Miller

DATE CONSIDERED

2-15-04

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	AM						Yes No
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	AO						Yes No
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MM ↓	AR	72	Witherell, G.W., and Uhlenbeck, O.C., "Specific RNA Binding by Q β Coat Protein," <i>Biochemistry</i> 28:71-76, American Chemical Society (1989)
	AS	72	Wong, C.K., et al., "Elevation of proinflammatory cytokine (IL-18, IL-17, IL-12) and Th2 cytokine (IL-4) concentrations in patients with systemic lupus erythematosus," <i>Lupus</i> 9:589-593, Macmillan Publishers Ltd. (2000)
	AT	72	Wu, Q., et al. "Reversal of Spontaneous Autoimmune Insulinitis in Nonobese Diabetic Mice by Soluble Lymphotoxin Receptor," <i>J. Exp. Med.</i> 193:1327-1332, The Rockefeller University Press (June 2001)

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Mary K. Smith

DATE CONSIDERED

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MM	AR	73	Wuttke, M., et al., "Structural Characterization of Human Recombinant and Bone-derived Bone Sialoprotein," J. Biol. Chem. 276:36839-36848, The American Society for Biochemistry and Molecular Biology, Inc. (2001)
I	AS	73	Wynne, S.A., et al., "The Crystal Structure of the Human Hepatitis B Virus Capsid," Mol. Cell 3:771-780, Cell Press (1999)
L	AT	73	Xiong, C., et al., "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," Science 243:1188-1191, American Association for the Advancement of Science (1989)

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Hosley

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2-19-04

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	AR	75	Yuan, T-T., et al., "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen," J. Virol. 73:10122-10128, American Society for Microbiology (1999)				
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	AT	75	Zhou, S., and Standring, D.N., "Cys Residues of the Hepatitis B Virus Capsid Protein Are Not Essential for the Assembly of Viral Core Particles but Can Influence Their Stability," J. Virol. 66:5393-5398, American Society for Microbiology (1992)				

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	AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	76	Zimmermann, N., et al., "Murine Eotaxin-2: A Constitutive Eosinophil Chemokine Induced by Allergen Challenge and IL-4 Overexpression," <i>J. Immunol.</i> 165:5839-5846, The American Association of Immunologists (November 2000).
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	77	Copy of co-pending U.S. Application No. 09/449,631, inventors Renner et al., filed November 30, 1999.
	AS	77	Copy of co-pending U.S. Application No. 10/050,898, inventors Renner et al., filed January 18, 2002.
	AT	77	Fehr, T., et al., "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," Proc. Natl. Acad. Sci. USA 95:9477-9481, National Academy Press (1998)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	7B	Frenkel, D., et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination." Vaccine 19:2615-2619, Elsevier Science, Ltd. (March 2001)
L	AS	7B	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002.
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FORM PTO-1449

SIXTH SUPPLEMENTAL
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	AP						Yes No

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MM	AT	95	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)

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2-25-04

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<u>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	96	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
MM	AS	96	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)
MM	AT	96	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)

EXAMINER

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	AP						Yes No

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MM	AR	97	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)
MM	AS	97	NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvier E. (July 1993)
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Moley

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MM	AR	98	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
MM	AS	98	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)
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MM	AR	29	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994)
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	100	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
MM	AS	100	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)
MM	AT	100	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)

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DATE CONSIDERED 7-25-04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)				
MM	AS	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)				
MM	AT	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85286, from Lai, M.E., et al. (April 1995)				

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DATE CONSIDERED

2-25-04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995)				
	AS	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995)				
	AT	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)				
EXAMINER					DATE CONSIDERED <u>7-25-04</u>		
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995)				
MM	AS	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., et al. (April 1995)				
MM	AT	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., et al. (April 1995)				

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2-25-04

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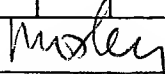
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995)
	AS	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85299, from Lai, M.E., et al. (April 1995)
	AT	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	105	NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995)
MM	AS	105	NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995)
MM	AT	105	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)				
	AS	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)				
	AT	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)				

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	107	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
MM	AS	107	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)
MM	AT	107	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)

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2-25-04

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	108	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
MM	AS	108	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)
MM	AT	108	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., et al. (January 1996)

EXAMINER <i>M. M. Lee</i>	DATE CONSIDERED 2-25-04
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	109	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., et al. (February 1996)
MM	AS	109	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., et al. (April 1996)
MM	AT	109	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)

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DATE CONSIDERED

2-25-04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
MM	AS	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)
MM	AT	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997)

EXAMINER <i>mm</i>	DATE CONSIDERED <i>7-25-04</i>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	111	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)				
MM	AS	111	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)				
MM	AT	111	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)				

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DATE CONSIDERED

2-25-04

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	112	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)
	AS	112	NCBI Entrez, GenBank Report, Accession No. IPOC, from Scott, D.L., et al. (September 1998)
	AT	112	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)
EXAMINER			DATE CONSIDERED 2-25-04
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	113	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
MM	AS	113	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)
MM	AT	113	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)

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M. J. Lee

DATE CONSIDERED

2-25-04

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	114	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)				
MM	AS	114	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)				
MM	AT	114	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)				

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	115	NCBI Entrez, GenBank Report, Accession No. AF051815, from Boyd, E.F., and Hartl, D.L. (September 1999)				
MM	AS	115	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)				
MM	AT	115	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)				

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	116	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)				
MM	AS	116	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)				
MM	AT	116	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)				

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FORM PTO <u>SIXTH SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM	AR	117	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., et al. (July 2000)				
MM	AS	117	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)				
MM	AT	117	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., et al. (January 2001)				

EXAMINER <i>Mosley</i>	DATE CONSIDERED <i>2-25-04</i>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., et al. (January 2001)
MM	AS	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., et al. (January 2001)
MM	AT	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., et al. (January 2001)

EXAMINER <i>Mosley</i>	DATE CONSIDERED <i>2-25-04</i>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunket, G., III, et al. (January 2001)				
	AS	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)				
	AT	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)				

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	120	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)				
MM	AS	120	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)				
MM	AT	120	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)				

EXAMINER

Moley

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2-25-04

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	121	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)				
MM	AS	121	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)				
MM	AT	121	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)				

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Mosley

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	122	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002)
MM	AS	122	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002)
MM	AT	122	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)

EXAMINER <i>Moley</i>	DATE CONSIDERED <i>2-25-04</i>
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	123	NCBI Entrez, GenBank Report, Accession No. 009006, from Hromas, R., et al. (June 2002)
MM	AS	123	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)
MM	AT	123	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)

EXAMINER

Mosley

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2-25-04

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	124	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)				
MM	AS	124	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)				
MM	AT	124	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)				

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	125	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003)
MM	AS	125	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)
MM	AT	125	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)

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Moxley

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2-25-04

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	126	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)				
MM	AS	126	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)				
MM	AT	126	NCBI Entrez, GenBank Report, Accession No. O00585, from Hromas, R., et al. (September 2003)				

EXAMINER

M. M. M.

DATE CONSIDERED

2-25-04

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	127	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003)				
MM	AS	127	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003)				
MM	AT	127	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003)				

EXAMINER

M. J. Jones

DATE CONSIDERED

2-25-04

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	128	Swiss-Prot/TreMBL, TN11_Mouse, Primary Accession No. 035235, entered in Swiss-Prot in October 2001
MM	AS	128	Swiss-Prot/TreMBL, TN11_Human, Primary Accession No. 014788, entered in Swiss-Prot in October 2001
MM	AT	128	Copy of co-pending U.S. application 10/622,064, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)

EXAMINER

Moxley

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MM	AR	12B	Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. 035235, entered in Swiss-Prot in October 2001				
MM	AS	12B	Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. 014788, entered in Swiss-Prot in October 2001				
MM	AT	12B	Copy of co-pending U.S. application 10/622,064, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>129</u>	Copy of co-pending U.S. application 10/617,876, inventors Bachmann et al., filed July 14, 2003 (NOT PUBLISHED)				
MM	AS	<u>129</u>	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				
MM	AT	<u>129</u>	Copy of co-pending U.S. application 10/622,124, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				

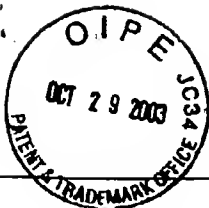
EXAMINER

M. J. M.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	130	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)
MM	AS	130	The Biology of Animal Viruses, 2nd ed., Fenner, F., et al., eds., Academic Press, New York, NY, pp. 117-119 (1974)
MM	AT	130	NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990)

EXAMINER

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention	Molecular Antigen Array																																																																																																		
<p>Application Number: 10/050902 Confirmation Number: 7792 First Named Applicant: Wolfgang Renner Attorney Docket Number: 1700.0190004 Search string: (4722840 or 5143726 or 5789245 or 5792462 or 5871747 or 5928647 or 6004763 or 6054312 or 6231864 or 5580859).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>4722840</td><td>1988-02-02</td><td>Valenzuela et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>2</td><td>5143726</td><td>1992-09-01</td><td>Thornton et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>3</td><td>5789245</td><td>1998-08-04</td><td>Dubensky, Jr. et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>4</td><td>5792462</td><td>1998-08-11</td><td>Johnston et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>5</td><td>5871747</td><td>1999-02-16</td><td>Gengoux-Sedlik et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>6</td><td>5928647</td><td>1999-07-27</td><td>Rock</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>7</td><td>6004763</td><td>1999-12-21</td><td>Gengoux et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>8</td><td>6054312</td><td>2000-04-25</td><td>Larocca et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>9</td><td>6231864</td><td>2001-05-15</td><td>Birkett</td><td>B1</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>10</td><td>5580859</td><td>1996-12-03</td><td>Felgner et al.</td><td></td><td></td><td></td></tr></tbody></table> <p>Signature</p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td><i>Mosley</i></td><td>2-19-04</td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	4722840	1988-02-02	Valenzuela et al.				<input checked="" type="checkbox"/>	2	5143726	1992-09-01	Thornton et al.				<input checked="" type="checkbox"/>	3	5789245	1998-08-04	Dubensky, Jr. et al.				<input checked="" type="checkbox"/>	4	5792462	1998-08-11	Johnston et al.				<input checked="" type="checkbox"/>	5	5871747	1999-02-16	Gengoux-Sedlik et al.				<input checked="" type="checkbox"/>	6	5928647	1999-07-27	Rock				<input checked="" type="checkbox"/>	7	6004763	1999-12-21	Gengoux et al.				<input checked="" type="checkbox"/>	8	6054312	2000-04-25	Larocca et al.				<input checked="" type="checkbox"/>	9	6231864	2001-05-15	Birkett	B1			<input checked="" type="checkbox"/>	10	5580859	1996-12-03	Felgner et al.				Examiner Name	Date	<i>Mosley</i>	2-19-04
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Electronic Information Disclosure Statement

Molecular Antigen Array

Application:



10/050902

Confirmation: 7792

Applicant(s): Wolfgang Renner

Docket

1700.0190004

Number:

Group Art Unit: 1645


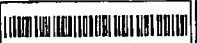


Examiner:

search string: (5071651 or 5334394 or 5374426 or 5580589 or 5698424 or 5739026 or 5770380 or 5766602 or 5789245 or 5792462 or 5814482).pn.


US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
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	P02	5334394	1994-08-02		Kossovsky et al.		
	P03	5374426	1994-12-20		Sabara et al.		
	P04	5580589	1996-12-03		Felgner et al.		
	P05	5698424	1997-12-16		Mastico et al.		
	P06	5739026	1998-04-14		Garoff et al.		
	P07	5770380	1998-06-23		Hamilton et al.		
	P08	5766602	1998-06-16		Xiong et al.		
	P09	5789245	1998-08-04		Dubensky, Jr.		

					et al.
	P10	5792462	1998-08-11		Johnston et al.
	P11	5814482	1998-09-29		Dubensky, Jr. et al.


Signature

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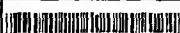
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Molecular Antigen Array

Application: 
10/050902
Confirmation: 7792
Applicant(s): Wolfgang Renner
Docket Number: 1700.0190004
Group Art Unit:
Examiner:
search string: (6380364 or 20020081295 or 20020064533).pn.





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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	U01	6380364	2002-04-30		Mueller et al.		

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	U01	20020081295	2002-06-27		Schiller et al.		
	U02	20020064533	2002-05-30		Murray		



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Examiner Name	Date
<i>N. J. Lee</i>	2-19-04



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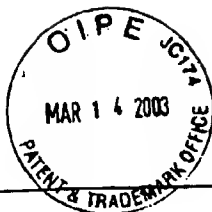
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				APPLICANT Renner et al.			
				FILING DATE January 18, 2002		GROUP 1645	
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	AN						Yes No
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MM	AP2	WO 99/28478	06/10/1999	WIPO			Yes No
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MM	AR	79	Kozlovska, T.M., et al., "RNA Phage Q8 Coat Protein as a Carrier for Foreign Epitopes," <i>Intervirology</i> 39:9-15, S. Karger AG (1996).				
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MM	AL3	WO 99/57289	11/11/1999	WIPO			Yes No
MM	AM3	WO 00/50461	08/31/2000	WIPO			Yes No
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	AO						Yes No
	AP						Yes No
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	AL						Yes No
	AM						Yes No
MM	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
	AO3	EP 0 385 610 B1	03/16/1994	Europe			Yes No
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	AL4	EP 0 465 081 B1	04/20/1994	Europe			Yes No
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	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
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	AL5	WO 99/07839 A2	02/18/1999	WIPO			Yes No
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	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
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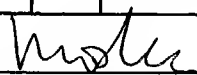
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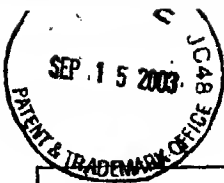
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275-04

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	87	Hilleman, M.R., "Six decades of vaccine development - a personal history," Nat. Med. Vaccine Suppl. 4:507-514 (May 1998)
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FORM PTO-1449 <u>FIFTH SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
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2-19-04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
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	AR	90	Perham, R.N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," <i>FEMS Microbiol. Rev.</i> 17:25-31, Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies (1995)
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	AM						Yes No
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	AL						Yes No
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	AL						Yes No
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↓	AT	94	Dialog File 351, Accession No. 7431992, Derwent WPI English language abstract for WO 94/06472 (Document AP3)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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mm	AR	95	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August 2000) (not for publication)
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